Exploring the Extreme 2006 Science					
Montana Science					
Grades K-4					
Activity/Lesson	State	Standards			
Finding the Center of Gravity Using Rulers		SCI.K-4.1.1.a	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): (a) asking questions about objects, events, and organisms in the environment A proficient student will: develop the abilities		
Finding the Center of Gravity Using Rulers		SCI.K-4.1.1.b	necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): planning and conducting simple investigations		
Finding the Center of Gravity Using Rulers		SCI.K-4.1.2	A proficient student will: select and use appropriate tools including technology to make measurements (including metric units) and represent results of basic scientific investigations		
Finding the Center of Gravity Using Rulers		SCI.K-4.1.4	A proficient student will: use models that illustrate simple concepts and compare those models to the actual phenomenon		
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.1.a	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): (a) asking questions about objects, events, and organisms in the environment		
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.1.b	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): planning and conducting simple investigations		
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.3	A proficient student will: use data to describe and communicate the results of scientific investigations		
Finding the Center of Gravity Using Plumb Lines	MT	SCI.K-4.1.4	A proficient student will: use models that illustrate simple concepts and compare those models to the actual phenomenon		
Changing the Center of Gravity Using Moment Arms	MT	SCI.K-4.1.1.a	A proficient student will: develop the abilities necessary to safely conduct scientific inquiry, including (a step-by-step sequence is not implied): (a) asking questions about objects, events, and organisms in the environment		

			A proficient student will: develop the abilities
			necessary to safely conduct scientific inquiry,
Changing the Contor			
Changing the Center			including (a step-by-step sequence is not
of Gravity Using	N 4-T	00116 4 4 4 1	implied): planning and conducting simple
Moment Arms	MT	SCI.K-4.1.1.b	investigations
			A proficient student will: select and use
			appropriate tools including technology to
Changing the Center			make measurements (including metric units)
of Gravity Using	l		and represent results of basic scientific
Moment Arms	MT	SCI.K-4.1.2	investigations
Changing the Center			A proficient student will: use models that
of Gravity Using			illustrate simple concepts and compare
Moment Arms	MT	SCI.K-4.1.4	those models to the actual phenomenon
		xploring the Ex	
		2006 Scienc	
	1	Content Standa	ards
Montana Science			
Grades 5-8			
Activity/Lesson	State	Standards	
			identify a question, determine relevant
			variables and a control, formulate a testable
			hypothesis, plan and predict the outcome of
			an investigation, safely conduct scientific
Vectoring	MT	SCI.5-8.1.1	investigation, and compare and analyze data
			select and use appropriate tools including
			technology to make measurements (in
			metric units), gather, process and analyze
Vectoring	MT	SCI.5-8.1.2	data from scientific investigations
			review, communicate and defend results of
			investigations, including considering
Vectoring	MT	SCI.5-8.1.3	alternative explanations
			select and use appropriate tools including
			technology to make measurements (in
Center of Gravity,			metric units), gather, process and analyze
Pitch, Yaw	MT	SCI.5-8.1.2	data from scientific investigations